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## User Interface Design Principles

User Interface is a very important factor when we design our application. It provides a mechanism for end users to interact with the application. Designing a good user interface which is easy to use is a successful application. If you already know the target audience for your application then designing becomes simple as you will already be familiar with their needs and likes. Target audience, for example, can be the employees of a firm. A well designed user interface makes it easy and simple to understand and use. On the other hand, a poorly designed user interface is difficult to use and can lead to distraction and frustration.

Good user interface is possible if it is designed keeping in mind the following principles:

- 1) Simplicity
- 2) Positioning of Controls
- 3) Consistency
- 4) Aesthetics

The image below is an example of a good user interface design.

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**Register**

### New Account Registration

First Name

Last Name

Date of Birth

Sex ☐ Male ☐ Female

Address 1

Address 2

State

The above said four principles explained:

### **Simplicity**

Simplicity is a key factor when designing a user interface. If a user controls then learning and using that application will be hard. Simplicity should allow the user to complete all the required tasks by the program flow and execution should be kept on mind while designing. unnecessary images that distract the user. The simpler the user interface it will be.

### **Positioning of Controls**

Positioning of controls should reflect their importance. Say, for example application that has a data-entry form with textboxes, buttons, radio buttons be positioned in such a way that they are easy to locate and match. submit button should be placed at the bottom of the form so that when can click it straight away. The image above is a perfect example of positioning.



### **Consistency**

The user interface should have a consistent look through out the appli lies during the design process. Before developing an application, w consistent visual scheme for the application that will be followed throug for special purposes, using of colors for headings, use of images, etc are

### **Aesthetics**

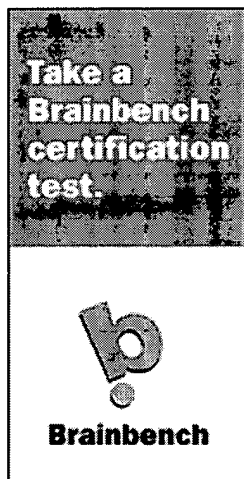
An application should project an inviting and pleasant user interf considered for that.

### **Color**

Use of color is one way to make the user interface attractive to the us for text and back-ground should be appealing. Care should be taken i disturbing to the eye, for example, black text on a red back-ground.

### **Fonts**

The fonts which you use for text should also be selected with care. 5 Verdana, Times New Roman should be used. Try to avoid bold, strik application. Use of bold, italics and other formatting should be limited to



### **Images**

Images add visual interest to the application. Simple, plain imag appropriate. Avoid using flashing images and images that are not ne show off.

### **Shapes and Transparency**

.NET Framework provides tools that allow us to create forms and co opacity. Apart from using traditional shapes like rectangles, etc, these own shapes which can provide some very powerful visual effects. User only if the application requires it and care should be taken that the sl disturb the eye.

The image below is an example of a poorly designed user interface.

Register

First Name

Last Name

Date of Birth

Sex

Male

Female

Address 1

Address 2

State

Select State

Reset

Submit

Related: Controls

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